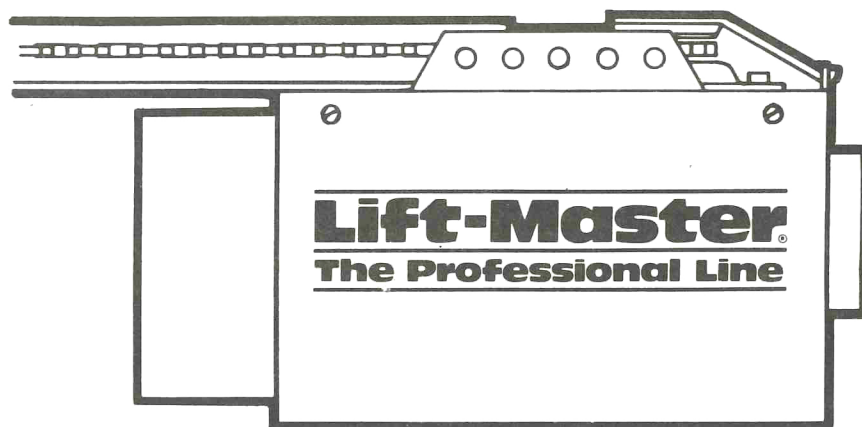


**Lift-Master**  
**The Professional Line**

The Chamberlain Group, Inc.  
A Unit of Duchossois Industries, Inc.  
845 Larch Avenue, Elmhurst, Illinois 60126

## Owners Manual



## Lift-Master Garage Door Opener

### MODELS:

1046 - 1/3 HP

1056 - 1/2 HP

**FASTEN THIS MANUAL NEAR THE  
GARAGE DOOR AFTER INSTALLATION.  
PERIODIC CHECKS OF OPENER ARE  
REQUIRED TO INSURE SATISFACTORY  
OPERATION.**

**PLEASE READ  
THIS MANUAL CAREFULLY**

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# Start By Reading These Important Safety Rules



**THIS SAFETY ALERT SYMBOL MEANS CAUTION — PERSONAL SAFETY OR PROPERTY DAMAGE INSTRUCTION. READ THESE INSTRUCTIONS CAREFULLY.**

**THIS GARAGE DOOR OPENER IS DESIGNED AND TESTED TO OFFER REASONABLY SAFE SERVICE PROVIDED IT IS INSTALLED AND OPERATED IN STRICT ACCORDANCE WITH THE FOLLOWING SAFETY INSTRUCTIONS.**

**FAILURE TO COMPLY WITH THE FOLLOWING INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE.**

**CAUTION: IF YOUR GARAGE HAS NO SERVICE ENTRANCE DOOR, INSTALL MODEL 1702 EMERGENCY RELEASE KEY LOCK (PAGE 4). THIS ACCESSORY ALLOWS MANUAL OPERATION OF GARAGE DOOR FROM OUTSIDE IN CASE OF POWER FAILURE.**



**KEEP GARAGE DOOR BALANCED.** Sticking or binding doors must be repaired. Garage doors, door springs, cables, pulleys, brackets and their hardware are under extreme tension and can cause serious personal injury. **DO NOT ATTEMPT TO LOOSEN, MOVE OR ADJUST THEM.** Call a garage door serviceman.



**THE SAFETY REVERSE SYSTEM TEST IS IMPORTANT.** (See Pg. 15). Your garage door **MUST** reverse on contact with a one-inch obstacle placed on the floor. Failure to properly adjust the opener may result in serious personal injury from a closing garage door. **REPEAT TEST AT LEAST ONCE EVERY THREE MONTHS AND MAKE NEEDED ADJUSTMENTS.**



**DO NOT WEAR RINGS, WATCHES OR LOOSE CLOTHING** while installing or servicing a garage door opener.



Fasten **CAUTION LABEL** adjacent to wall control as a reminder of safe operating procedures.



To avoid serious personal injury from entanglement, **REMOVE ALL ROPES CONNECTED TO THE GARAGE DOOR** before installing the garage door opener.



Install the wall control (or any additional push buttons) **IN A LOCATION WHERE THE GARAGE DOOR IS VISIBLE, BUT OUT OF THE REACH OF CHILDREN. DO NOT ALLOW CHILDREN TO OPERATE THE WALL PUSH BUTTON(S) OR THE TRANSMITTER.** Serious personal injury from a closing garage door may result from misuse of opener.



**DISENGAGE ALL EXISTING GARAGE DOOR LOCKS** to avoid damage to garage door.



Installation and wiring must be in compliance with your local building and electrical codes. **CONNECT POWER CORD ONLY TO A PROPERLY GROUNDED OUTLET.**



**CAUTION:** Activate opener only when the door is in full view, free of obstruction and opener is properly adjusted. **NO ONE SHOULD ENTER OR LEAVE THE GARAGE WHILE DOOR IS IN MOTION. DO NOT ALLOW CHILDREN TO PLAY NEAR DOOR.**



**LIGHTWEIGHT FIBERGLASS, ALUMINUM AND STEEL DOORS MUST BE SUBSTANTIALLY REINFORCED TO AVOID DOOR DAMAGE.** (See page 12.) The best solution is to check with your garage door manufacturer for an opener installation reinforcement kit.



Use emergency release **ONLY** to disengage trolley and, if possible, **ONLY** when the door is closed. **DO NOT USE RED EMERGENCY RELEASE ROPE AND HANDLE TO PULL DOOR OPEN OR CLOSED**



**DO NOT USE FORCE ADJUSTMENTS TO COMPENSATE FOR A BINDING OR STICKING GARAGE DOOR.** Excessive force will interfere with the proper operation of the safety reverse system or damage the garage door. (Page 14).



**DISCONNECT ELECTRIC POWER TO GARAGE DOOR OPENER BEFORE MAKING REPAIRS OR REMOVING COVERS.**



# Operation of Your Opener

## CAUTION

- **BEFORE YOU PROCEED, PLEASE READ THE SAFETY RULES ON PAGE 2 AND OPERATING INSTRUCTIONS ON THIS PAGE CAREFULLY.**
- **TO AVOID DIFFICULTY DURING INSTALLATION, DO NOT RUN OPENER UNTIL INSTRUCTED TO DO SO.**

- **DO NOT PERMIT CHILDREN TO PLAY IN DOOR AREA.**
- **OPERATE ONLY WHEN THE OPENER IS PROPERLY ADJUSTED AND DOOR IS VISIBLE AND UNOBSTRUCTED.**

### USING THE OPENER

Your opener can be activated by any of the following devices (wait one-second between commands):

1. **The Transmitter.** Hold push button down until door starts to move.
2. **The Lighted Push Button.** Hold button down until door starts to move.
3. **The Key Switch or Keyless Entry System** (if you have installed either of these accessories).

### OPENING THE DOOR MANUALLY

The door can be operated manually by disconnecting it from the opener. **THE DOOR SHOULD BE FULLY CLOSED IF POSSIBLE. WEAK OR BROKEN SPRINGS COULD ALLOW AN OPEN DOOR TO FALL RAPIDLY. PROPERTY DAMAGE OR SERIOUS PERSONAL INJURY COULD RESULT.**

Simply pull down sharply on red emergency release handle and lift the door manually.

**DO NOT USE THE EMERGENCY HANDLE TO PULL THE DOOR OPEN OR CLOSED.**

To automatically reconnect the door to the opener, press the Lighted Push Button.

### WHEN OPENER IS ACTIVATED BY TRANSMITTER OR LIGHTED PUSH BUTTON:

1. If open, door will close. If closed, door will open.
2. If closing, the door will reverse.
3. If opening, the door will stop (allowing space for entry and exit of pets and for fresh air).
4. If the door has been stopped in a partially open position, it will close.
5. If an obstruction is encountered while closing, the door will reverse.
6. If an obstruction is encountered while opening, the door will stop.
7. If installed, the optional 'Protector System' will detect any obstruction and signal the opener to reverse the door in the closing cycle. It will also prevent an open door from closing when obstructed. It has no effect in the opening cycle.

**THE OPENER LIGHT** will turn on under the following conditions: when the opener is initially plugged in; when power is interrupted; when the opener is activated. It will turn off automatically after 4-1/2 minutes. Bulb size-75 Watts maximum.

## CARE OF THE OPENER

When properly installed, the opener will provide high performance with a minimum of maintenance. Opener does not require additional lubrication.

Most complaints of unsatisfactory opener operation can be traced to problems with the door itself....**OPENER IS NOT INTENDED TO CORRECT PROBLEMS THAT ARE CAUSED BY AN UNBALANCED OR BINDING DOOR, BROKEN DOOR SPRINGS OR BY FAULTY DOOR HARDWARE.**

When operated manually, a properly balanced door will stay in any point of travel while being supported entirely by its springs.

**LIMIT AND FORCE ADJUSTMENTS:** These adjustments must be checked and properly set when opener is installed. Only a screwdriver is required. **Weather conditions may cause minor changes in door operation requiring some readjustments, particularly during the first year of operation.** Page 14 refers to limit and force adjustments. Follow instructions carefully and **repeat SAFETY REVERSE TEST after any adjustment.**

**THE SAFETY REVERSE SYSTEM IS IMPORTANT (SEE PG.15). GARAGE DOOR MUST REVERSE ON CONTACT WITH A ONE-INCH OBSTACLE PLACED ON THE FLOOR. FAILURE TO PROPERLY ADJUST OPENER MAY RESULT IN SERIOUS PERSONAL INJURY FROM A CLOSING GARAGE DOOR.**

**CHAIN TENSION ADJUSTMENT:** After installation of the opener and adjustment of forces and limits, chain may appear loose. This is normal. **TO CHECK THE CHAIN TENSION:** disconnect the trolley by pulling the red emergency handle. If the chain returns to the position described and illustrated in Step 3. Page 6, **DO NOT** make ANY further adjustments.

**THE TRANSMITTER:** Portable transmitter may be secured to a car sun visor with clip provided. Additional transmitters can be purchased at any time for use in all vehicles using garage. (Refer to Accessories, Pg. 4).

Any new transmitters must be set to the same code as original transmitter and receiver. Code setting procedures are described on Page 16.

**TRANSMITTER BATTERY:** The 9-Volt battery should produce power for at least one year. As long as there is adequate power, the transmitter battery test light will glow when push button is pressed (and the opener will operate). When the light does not come on, replace battery. If transmission range lessens, check battery light.

**TO CHANGE BATTERY:** Remove visor clip and connecting screw in transmitter case. Set aside top of case and discard old battery. Snap connector onto new battery. Replace top of case and connecting screw. Replace visor clip.

## MAINTENANCE OF YOUR OPENER

### AT LEAST 4 TIMES A YEAR

**MANUALLY OPERATE DOOR.** If unbalanced or binding call for professional garage door service.

**CHECK TO MAKE SURE DOOR OPENS AND CLOSSES FULLY.** Adjust Limits and/or Force if necessary.

**REPEAT SAFETY REVERSE TEST.** Make any necessary adjustments (See Page 15).

### TWICE A YEAR

**CHECK CHAIN TENSION.** Adjust if necessary.

### ONCE A YEAR

**OIL DOOR ROLLERS, BEARINGS AND HINGES.**

## FEATURES OF YOUR OPENER

- 1. Opener Light:** Turns on and off automatically with 4-1/2 minute illumination for your safety and convenience.
- 2. Safety System:** Independent up and down force adjustment. Door REVERSES automatically when obstructed in DOWN direction. Door STOPS when obstructed in UP direction.
- 3. Emergency Disconnect:** Pull cord disconnect permits manual door operation.
- 4. Motor Power:** Permanently lubricated motor with automatic reset.
- 5. Automatic Reconnect:** Trolley halves reconnect for automatic operation when the opener is energized after emergency disconnect.
- 6. Digital Radio Controls:** Codes can be easily changed by the owner.
- 7. Easy Limit Adjustment:** Limits of door opening and closing adjusted by turning screws without removing chassis cover.

## SPECIFICATIONS

### MOTOR

Type..... Permanent split capacitor  
 Speed..... 1500 rpm  
 Volts..... 120 Volts AC - 60 Hz. Only  
 Current..... 4.5 amperes

### DRIVE MECHANISM

Gears..... 16:1 worm gear reduction  
 Drive..... Chain & cable or full chain with two-piece trolley on steel Tee rail  
 Length of Travel..... Adjustable to 7-1/2 feet  
 Travel rate..... 6 to 8 inches per second  
 Lamp..... On when door starts to travel, off 4-1/2 minutes after stop.  
 Door linkage..... Adjustable door arm. Pull cord trolley release

### SAFETY

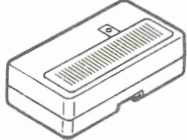
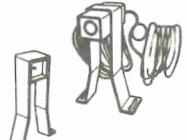

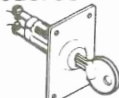

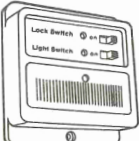
Personal..... Push button & automatic reversal in down direction. Push button & automatic stop in up direction.  
 Electronic..... Independent up & down force adjustment screws  
 Electrical..... Motor overload protector and low voltage push button wiring  
 Limit device..... Circuit actuated by limit nut  
 Limit adjustment..... Screwdriver adjustment on side panel  
 Start circuit..... Low voltage push button or radio control

### DIMENSIONS

Length (overall)..... 124 inches  
 Headroom required..... 2 inches  
 Hanging Weight..... 32 pounds

## ACCESSORIES

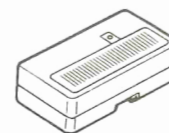
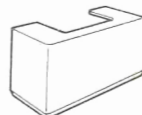
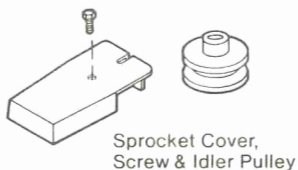
Chamberlain offers many useful accessories for your garage door opener. They are illustrated below with stock numbers and descriptions.

|  |  |   |   |
|--|--|---|---|
| <p><b>Model 51</b></p>  | <p><b>EXTRA TRANSMITTER:</b><br/>Includes visor clip.</p>  | <p><b>Model 70</b></p>  | <p><b>'THE PROTECTOR SYSTEM':</b><br/>An optional system which provides auxiliary support to the safety features built into your opener. Sensors detect any obstruction to door while in down cycle and transmit a signal to opener. The opener will cause a closing door to reverse and prevent an open door from closing.</p> |
| <p><b>Model 65</b></p>  | <p><b>KEYLESS ENTRY SYSTEM:</b><br/>Enables the homeowner to operate garage door opener from outside by entering code on specially designed keypad.</p>                        | <p><b>Model 60</b></p>  | <p><b>OUTDOOR KEY SWITCH:</b><br/>Opens the garage door automatically from outside when transmitter is not handy.</p>   |
| <p><b>1702</b></p>      | <p><b>EMERGENCY RELEASE KEY LOCK:</b><br/><b>REQUIRED for a garage with NO service door.</b> Allows manual operation of garage door from outside in case of power failure.</p> | <p><b>Model 55</b></p>   | <p><b>WALL CONTROL PANEL:</b> Provides a Lock Switch which prevents operation of garage door opener from the transmitter and a Light Switch which provides constant light.</p>  |



## OPENER CARTON INVENTORY

Chamberlain has packaged your Garage Door Opener in two cartons which contain all parts illustrated here and on Page 18. Hardware for assembly and installation is listed below.



4 lag screws, 5/16"x1-7/8"  
2 carriage bolts, 5/16"-18x2-1/2"  
1 tube of rail grease  
2 clevis pins, 5/16"x1"  
1 clevis pin, 5/16"x2-3/4"

### HARDWARE BAG CONTENTS

4 screws, 5/16"-18x7/8"  
6 nuts, 5/16"-18x1/2"  
6 lockwashers, 5/16"  
3 ring or cotter pin fasteners

Insulated staples  
Emergency release rope  
Emergency release handle  
Handy Hints label

## Assembly



**TO AVOID INSTALLATION DIFFICULTIES, DO NOT RUN OPENER UNTIL YOU ARE INSTRUCTED TO DO SO.**

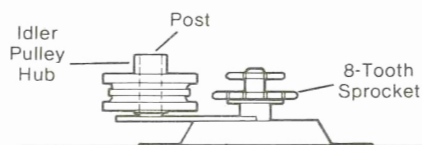
## STEP 1 Attach Tee Rail To Opener Chassis



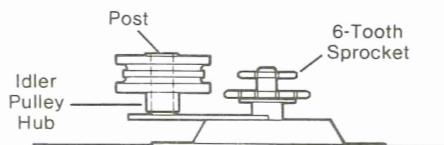
**USE ONLY THOSE SCREWS MOUNTED IN TOP OF OPENER CHASSIS. FAILURE TO DO SO WILL CAUSE SERIOUS DAMAGE TO THE DOOR OPENER.**

Locate hardware bag containing sprocket cover, screw and idler pulley. Remove idler pulley.

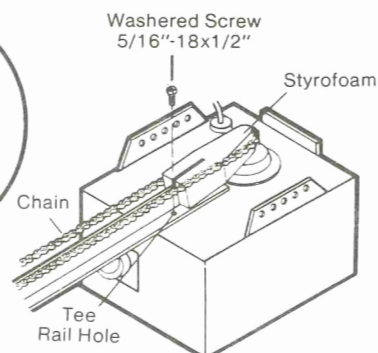
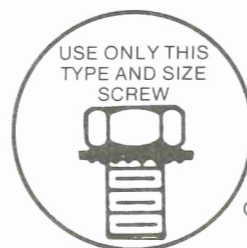
**FOR SECTIONAL DOOR:** Place idler pulley (hub side UP) over post as shown.



**FOR ONE-PIECE DOOR:** Place the idler pulley (hub side DOWN) over post as shown



**PROCEDURE:** Remove the two washered screws mounted in top of opener chassis. Align Tee rail at an angle with opener chassis so one hole in Tee rail and chassis line up. Thread one of the washered screws part way into chassis as shown. **CAUTION: Use only the screw previously removed from chassis! Use of any other screws will cause serious damage to the opener.** Align Tee rail and styrofoam over opener chassis sprocket. Cut tape from Tee rail, chain and styrofoam. **DO NOT REMOVE STYROFOAM.** Styrofoam will incline slightly up from sprocket as shown.



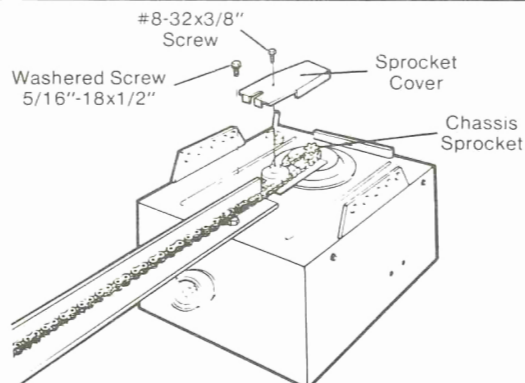
## STEP 2 Attach Chain to Sprocket

**FOR SECTIONAL DOOR:** Slide chain from styrofoam and over 8-tooth (bottom) sprocket. Make sure chain is aligned on pulley.

**FOR ONE-PIECE DOOR:** Slide chain from styrofoam and over the 6-tooth (top) sprocket. Make sure chain is aligned on pulley.

**FOR ALL DOOR TYPES:** Discard styrofoam. Insert second washered screw. **CAUTION: Use only the screw previously removed from chassis!** Tighten both screws securely through the Tee rail into chassis as shown.

Position the sprocket cover over shaft as shown and fasten with the #8-32x3/8" screw.

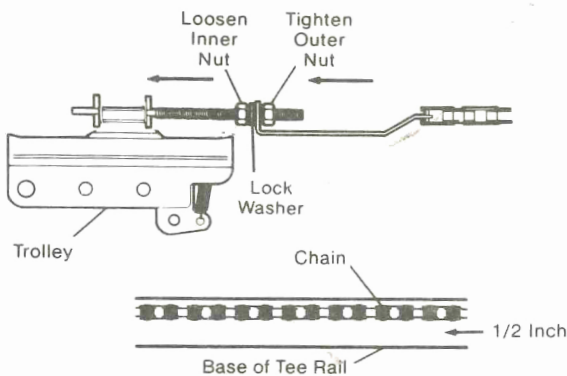




# Assembly

## STEP 3

### Tighten the Chain Assembly



**CAUTION:** Keep the chain from twisting as nuts are turned.

**PROCEDURE:** Thread the outer nut toward trolley as shown. (Loosen inner nut first, if necessary).

Tension is correct when the chain is approximately 1/2" above base of Tee rail midway between pulley bracket and chassis.

To maintain proper tension, turn inner nut toward chain retainer bracket until tight.

Sprocket noise can result if chain is either too loose or too tight.

**CAUTION:** Do not overtighten chain assembly. Refer to Page 3.

**ASSEMBLY OF YOUR GARAGE DOOR OPENER IS NOW COMPLETE.**

**BEFORE YOU PROCEED WITH THE INSTALLATION OF YOUR GARAGE DOOR OPENER BE SURE TO COMPLY WITH ALL SAFETY RULES**

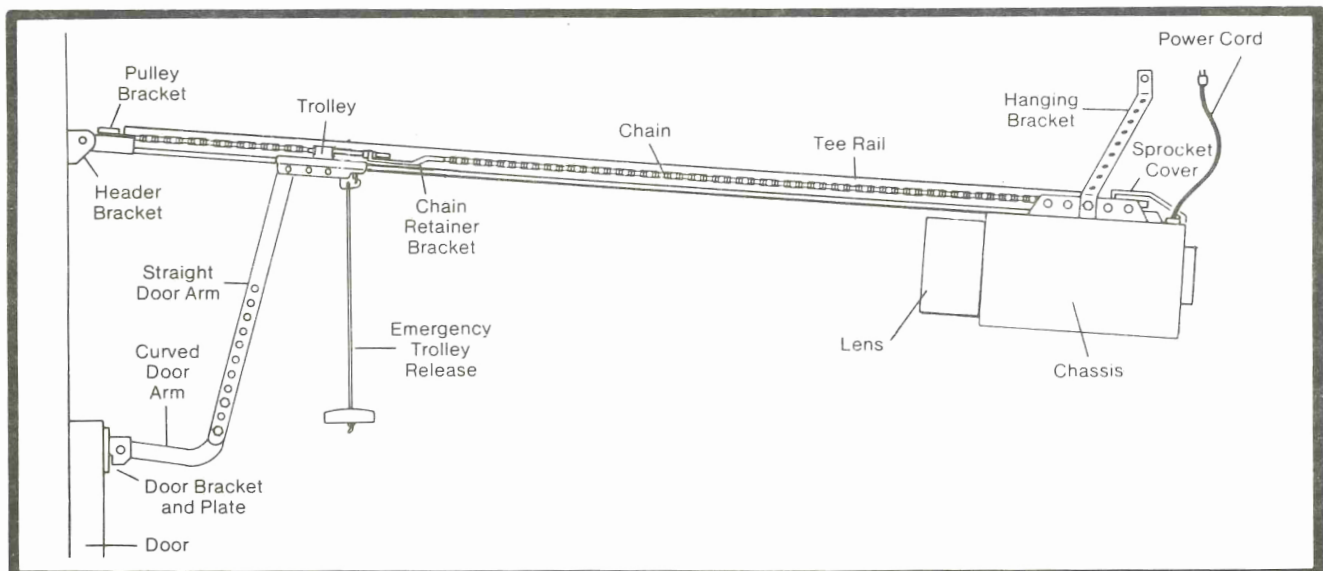


**KEEP GARAGE DOOR BALANCED. STICKING OR BINDING DOORS MUST BE REPAIRED. THE GARAGE DOOR, THE DOOR SPRINGS, CABLES, PULLEYS, BRACKETS AND THEIR HARDWARE ARE UNDER EXTREME TENSION AND CAN CAUSE SERIOUS PERSONAL INJURY. DO NOT ATTEMPT TO MOVE, LOOSEN OR ADJUST THEM. CALL A GARAGE DOOR SERVICEMAN.**



**DO NOT WEAR WATCHES, RINGS OR LOOSE CLOTHING WHILE INSTALLING OR SERVICING A DOOR OPENER.**

**AS YOU PROCEED WITH THE REMAINING INSTRUCTIONS IN THIS OWNERS MANUAL, YOU MAY FIND IT HELPFUL TO REFER TO THE FOLLOWING ILLUSTRATION OF THE FULLY ASSEMBLED AND INSTALLED GARAGE DOOR OPENER.**



**IT IS RECOMMENDED THAT THE OPENER BE INSTALLED 7 FEET OR MORE ABOVE THE FLOOR WHERE SPACE PERMITS.**

**CERTAIN INSTALLATION PROCEDURES VARY ACCORDING TO GARAGE DOOR TYPES. WHERE THE DIFFERENCES OCCUR, BE SURE TO FOLLOW ONLY THOSE INSTRUCTIONS WHICH APPLY TO YOUR DOOR CONSTRUCTION.**

# Installation

## STEP 1

### Position & Install Header Bracket

Installation procedures vary according to garage door types. Follow only those instructions which apply to your door as illustrated below.

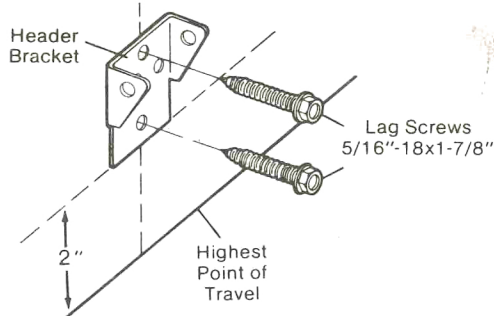


**THE HEADER BRACKET MUST BE RIGIDLY FASTENED TO THE HEADER WALL OR CEILING. REINFORCE WALL OR CEILING WITH 2x4 IF NECESSARY. FAILURE TO COMPLY MAY RESULT IN IMPROPER OPERATION OF SAFETY REVERSE SYSTEM (SEE PAGE 15).**

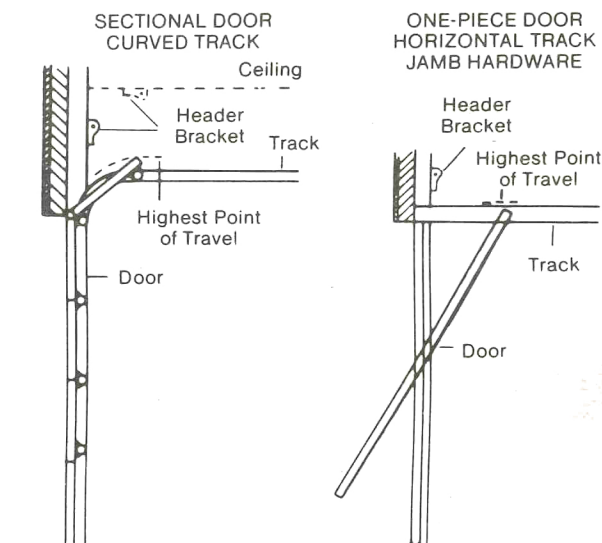
1. With door closed, locate and mark the vertical centerline of garage door. Extend line onto header wall above door.
2. Locate height for header bracket by opening door to highest point of travel as shown. Draw an intersecting horizontal line on header wall 2" above high point. This height provides travel clearance for top edge of door.

**NOTE: When headroom is not sufficient for 2" clearance, the bottom edge of bracket may be placed parallel to the high point of travel, or bracket may be attached to ceiling.**

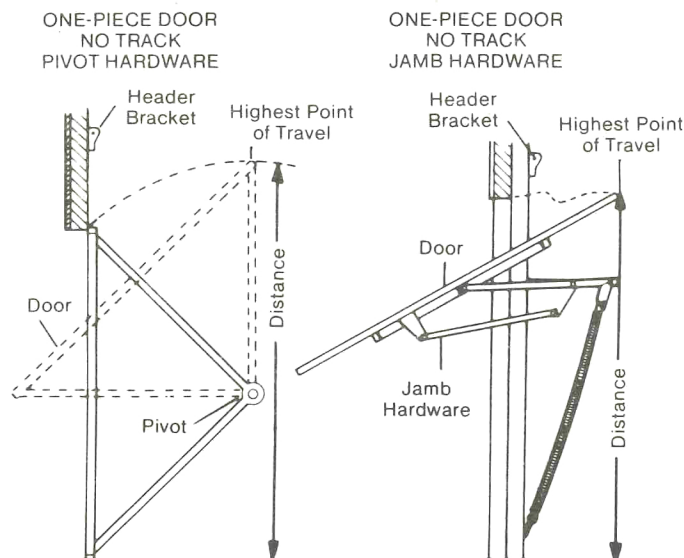
3. Position bracket as shown (bottom edge of the bracket on horizontal line). Mark either top and bottom or left and right bracket holes. Drill 3/16" pilot holes and fasten bracket.



### INSTALLATION SECTIONAL DOOR AND 1-PIECE DOOR WITH TRACK



### INSTALLATION 1-PIECE DOOR WITHOUT TRACK



1. Follow instructions described in No. 1 above.
2. Locate height for header bracket by opening door to highest point of travel as shown. Measure the distance from top of door to floor. Subtract actual height of door. Add 8" to the remainder. Refer to example below.

**NOTE: If the total number of inches exceeds the height available in your garage, use the maximum height possible. On finished ceilings, do not position the bracket closer than 1/2" from ceiling.**

3. Measuring from top of door, draw an intersecting horizontal line on header wall at determined height. Position bottom edge of header bracket on the horizontal line, centering bracket on vertical line. Mark either top and bottom or left and right holes. Drill 3/16" pilot holes and fasten the bracket with 5/16" x 1-7/8" lag screws as shown above.

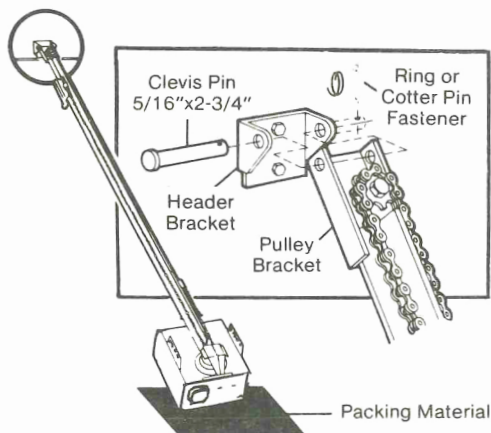
#### EXAMPLE

Distance from top of door (at highest point of travel) to floor  
Actual height of door  
Remainder  
Add  
Bracket height on header wall (Measure UP from top of door in closed position.)

$$\begin{array}{r}
 92'' \\
 -88'' \\
 \hline
 4'' \\
 + 8'' \\
 \hline
 =12''
 \end{array}$$

# Installation

## STEP 2 Attach Tee Rail to Header Bracket



**PROCEDURE:** Position opener chassis on garage floor below door and header brackets. Use packing material base to protect cover. **NOTE:** To enable Tee rail to clear sectional door springs, it may be necessary to lift chassis onto a temporary support.

**CAUTION:** Chassis must either be secured to support or held firmly in place by another person.

Raise Tee rail until pulley and header brackets come together. Align the bracket holes and join with a clevis pin. Secure connection with a ring or cotter pin fastener. (If cotter-type fastener, spread to secure.)

## STEP 3 Position Opener Chassis

Follow instructions which apply to your door type as illustrated below



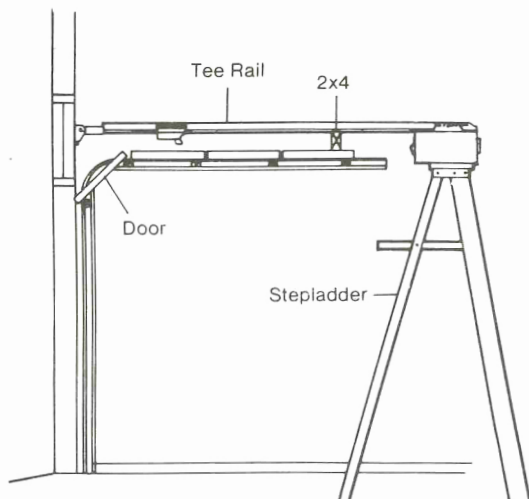
**TO PREVENT DAMAGE TO ALL LIGHTWEIGHT DOORS, AND DOORS WITH WINDOWS, DO NOT REST THE OPENER ON THE DOOR.**

### INSTALLATION

#### SECTIONAL DOOR AND 1-PIECE DOOR WITH TRACK

**NOTE:** A 2x4 is convenient for setting an ideal door-to-Tee rail distance. It is not a necessity where headroom is insufficient.

**PROCEDURE:** Raise opener chassis onto a stepladder. Open the garage door. Place a 2x4 on edge on top section of door near centerline. Rest Tee rail on 2x4.



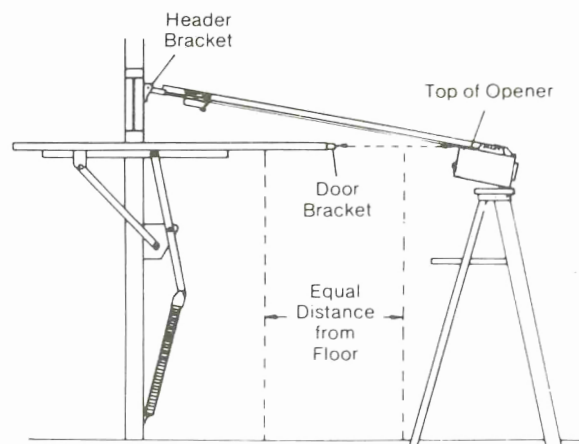
### INSTALLATION

#### 1-PIECE DOOR WITHOUT TRACK

**PROCEDURE:** Measure the distance from floor to top of door (in fully open position and parallel to floor).

Using a stepladder as a support, raise the opener chassis to the same distance from the floor (chassis will have a slight angle as shown).

The top of the door should be level with the top of the opener. For maximum efficiency, do not position the opener chassis more than 2 inches above this point.





# Installation

## STEP 4 Hang Opener Chassis

**THE OPENER CHASSIS MUST BE SECURELY FASTENED TO A STRUCTURAL SUPPORT OF GARAGE.**

Three representative installations are shown. Yours may be different. Hanging brackets (not supplied) should be angled (Fig. 1) or crossed (Fig. 2) to provide rigid support. On finished ceilings (Fig. 3), attach a sturdy metal bracket (not supplied) to ceiling joists before installing opener.

**PROCEDURE:** On EACH side of opener measure the distance from chassis to structural support.

Cut both pieces of the hanging bracket to required lengths. Flatten one end of each bracket and bend or twist to fit fastening angles. **Do not bend at bracket holes.** Drill 3/16" pilot holes in structural support. Attach flattened ends of brackets to the support with 5/16"x1-7/8" lag screws.

Lift opener and fasten to hanging bracket as shown. Check to make sure Tee rail is centered over door. REMOVE 2x4. Operate door manually. If door hits the rail, raise header bracket.

Grease top and underside of rail surface on which trolley slides. A tube of grease is supplied.

FIGURE 1

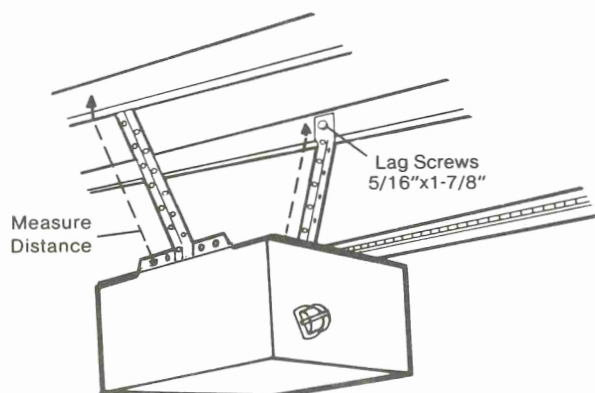


FIGURE 2

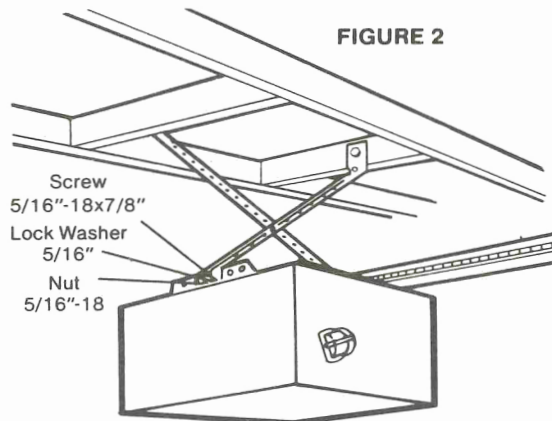
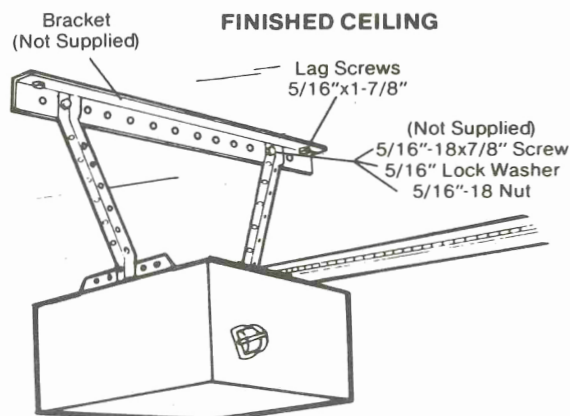


FIGURE 3



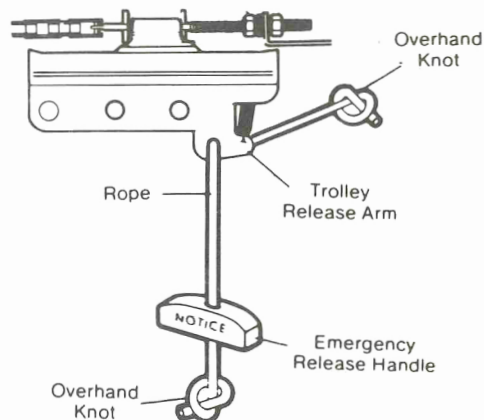
## STEP 5 Attach Emergency Release Rope & Handle



**USE EMERGENCY RELEASE ONLY TO DISENGAGE TROLLEY. DO NOT USE ROPE AND HANDLE TO PULL DOOR OPEN OR CLOSED.**

**PROCEDURE:** Thread one end of rope through hole in top of red handle so 'NOTICE' reads right side up as shown. Secure with an overhand knot. **NOTE: Knot should be at least 1 inch from end of rope to prevent slipping.** Thread other end of rope through hole in release arm of outer trolley. Adjust rope length so that handle is 6 feet above the floor. Secure with an overhand knot as above.

**NOTE:** If it is necessary to cut rope, heat seal cut end with a match or lighter to prevent fraying and/or raveling.



# Installation

## STEP 6 *Install Lighted Push Button*



**LOCATE WALL PUSH BUTTON (OR ANY ADDITIONAL PUSH BUTTONS) WHERE GARAGE DOOR IS VISIBLE, AWAY FROM DOOR AND DOOR HARDWARE AND OUT OF THE REACH OF CHILDREN.**

**SERIOUS PERSONAL INJURY FROM A MOVING GARAGE DOOR MAY RESULT FROM MIS-USE OF THE OPENER. DO NOT ALLOW CHILDREN TO OPERATE WALL PUSH BUTTON(S) OR THE TRANSMITTER.**

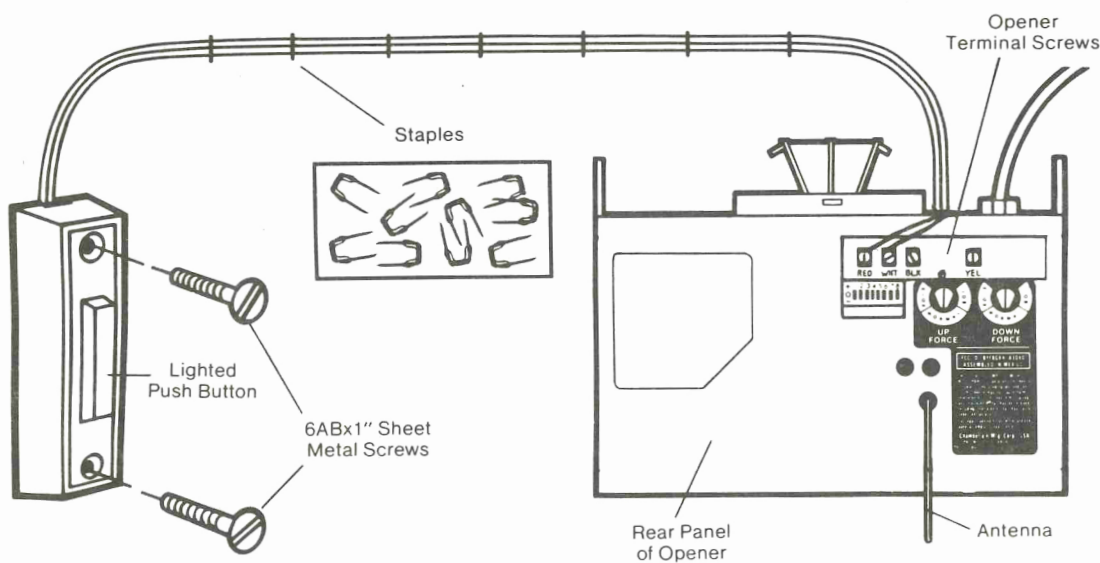
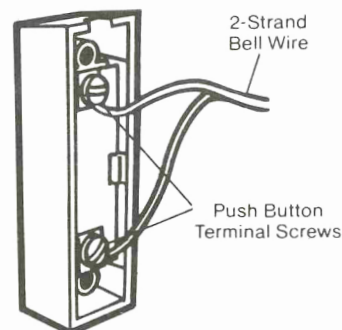
**FASTEN THE CAUTION LABEL ON THE WALL NEAR WALL PUSH BUTTON AS A REMINDER OF SAFE OPERATING PROCEDURES.**

**PROCEDURE:** Remove about a 1/4" of insulation from each end of the 2-strand bell wire. Connect one end to the screw terminals on the back of lighted push button as shown.

Fasten the push button to an inside garage wall with the 6ABx1" sheet metal screws provided. A convenient place is beside the service door and **OUT OF THE REACH OF CHILDREN.**

Run the bell wire up the wall and across the ceiling to garage door opener. Use insulated staples to secure wire.

The receiver terminals and the antenna are located on the back panel of the opener chassis. Position antenna wire as shown. Then connect wire by color to the white and red opener terminal screws.



### OPERATION OF THE LIGHTED PUSH BUTTON

Press and release to open or close door.

Press and release again to REVERSE door during CLOSING cycle or to STOP door during OPENING cycle.

**NOTE:** Wait about 1-second between commands.

### WIRING INSTRUCTIONS FOR ACCESSORIES

#### The 'Protector System':

To white & black opener terminals

#### Outdoor Key Switch:

To red & white opener terminals

#### Keyless Entry System:

To red and white opener terminals



# Installation

## STEP 7 *Install Lights and Lens*

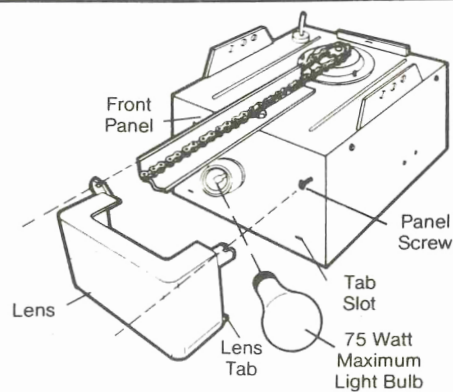
**PROCEDURE:** Install a 75 watt maximum light bulb in socket as shown. The light will turn on and remain lit when the power is connected. It will turn off automatically after 4-1/2 minutes.

**If light bulb burns out prematurely due to vibration, replace with "rough service" bulbs.**

### INSTALLING LENS

Locate (and loosen approximately 1/8") the two screws near top of opener front panel. Position lens against panel with slotted tabs directly below screws. Slide lens up to seat tabs behind the screws.

Snap bottom tabs of lens into panel slots. Retighten the top panel screws to secure lens.



## STEP 8 *Connect Electric Power*



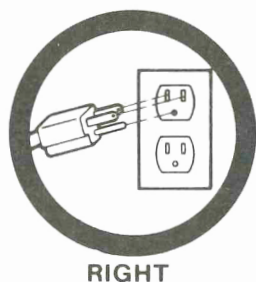
**TO AVOID SERIOUS PERSONAL INJURY FROM ENTANGLEMENT, REMOVE ALL ROPES CONNECTED TO THE GARAGE DOOR BEFORE OPERATING OPENER.**

**TO AVOID DAMAGE TO GARAGE DOOR AND OPENER, MAKE DOOR LOCKS INOPERATIVE BEFORE CONNECTING ELECTRIC POWER. USE A WOOD SCREW OR NAIL TO HOLD THE LOCKS IN "OPEN" (UNLOCKED) POSITION.**

**INSTALLATION AND WIRING MUST BE IN COMPLIANCE WITH LOCAL ELECTRICAL AND BUILDING CODES.**

**OPERATION AT OTHER THAN 120V 60Hz WILL CAUSE OPENER MALFUNCTION AND DAMAGE.**

**Opener MUST** be permanently wired or plugged into a grounded 3-prong receptacle wired according to local electrical codes. **DO NOT** use a 2-wire adapter. **DO NOT** use an extension cord.



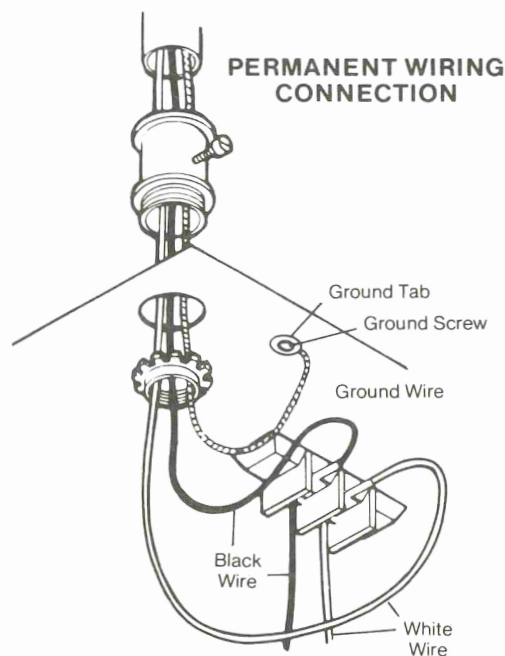
**IF LOCAL CODES REQUIRE PERMANENT WIRING:**



**DISCONNECT POWER AT FUSE BOX BEFORE PROCEEDING.**

**PROCEDURE:** Refer to illustration. Make connection through the 7/8 inch diameter hole in top of opener chassis.

1. Remove opener chassis cover by removing the cover screws.
2. Remove attached 3-prong cord.
3. Connect the black (line) wire to the black wire on terminal block; white (neutral) wire to the white terminal wire; the green (ground) wire to green ground screw.



**CAUTION: BE SURE THAT UNIT IS GROUNDED ACCORDING TO LOCAL CODE.**

**IMPORTANT NOTE: TO AVOID INSTALLATION DIFFICULTIES, DO NOT RUN OPENER NOW.**



# Installation

## STEP 9 *Install Door Bracket and Plate*

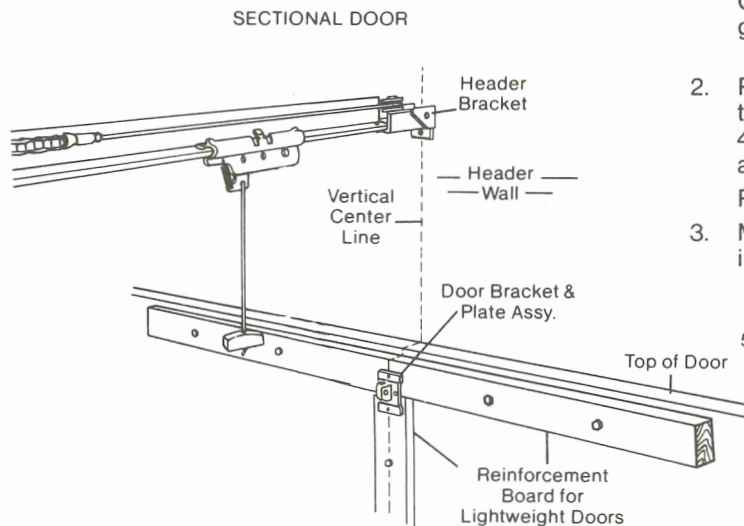
Follow instructions which apply to your door type as illustrated below



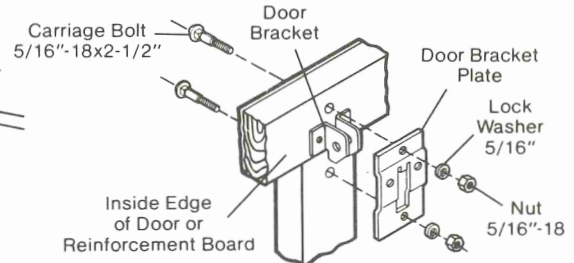
**TO PREVENT DAMAGE TO LIGHTWEIGHT AND METAL GARAGE DOORS (OR ONES WITH GLASS PANELS), ALWAYS REINFORCE THE INSIDE OF DOOR—BOTH VERTICALLY AND HORIZONTALLY—WITH 2x4 BOARDS OR ANGLE IRON.**

Horizontal brace should be at least 6 feet long. Vertical brace should cover height of top panel. **The best solution is to check with your garage door manufacturer for a door reinforcement kit for an opener installation.**

### Sectional Door Installation Procedure



1. Assemble the door bracket and plate as shown. Center bracket on previously marked vertical guideline.
2. Position bracket assembly on face of door within the following limits: **A.** Top edge of bracket 2" to 4" below the top edge of door. **B.** Directly below any structural support across top of door. Placement depends on your particular needs.
3. Mark and drill 5/16" TOP and BOTTOM fastening holes. Secure bracket as shown.

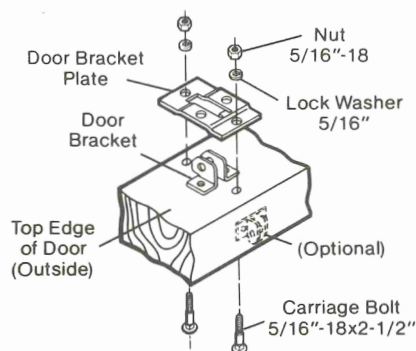


### All One-Piece Door Installation Procedure

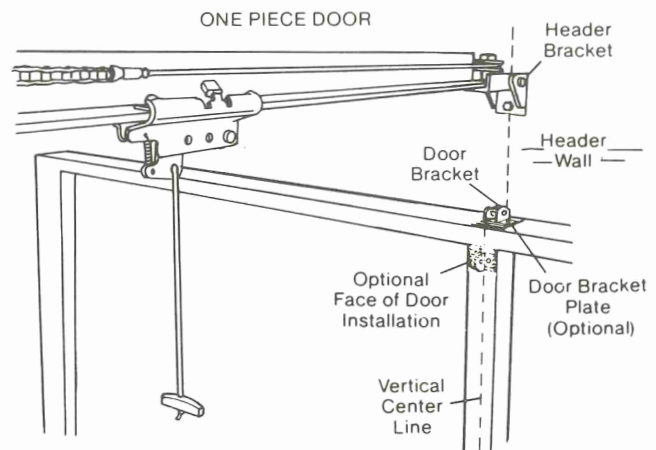
**NOTE:** The door bracket has left and right side fastening holes. Assemble and install the door bracket and plate if your installation requires top and bottom fastening holes.

1. Center bracket (with or without plate as required) on top edge of door as shown. Mark holes.
2. Drill two 5/16" holes and fasten door bracket with hardware supplied.

**NOTE:** If the door has no exposed framing, drill 3/16" pilot holes and use 5/16"x1-1/2" lag screws (not supplied) to fasten bracket to top of door.



**NOTE:** Door bracket may be installed on face of door if required for your installation. (Refer to dotted line drawing.) **HOWEVER,** drill 3/16" pilot holes and substitute 5/16"x1-1/2" lag screws (not supplied) to fasten the bracket to door.



# Installation

## STEP 10 *Connect Door Arm to Trolley*

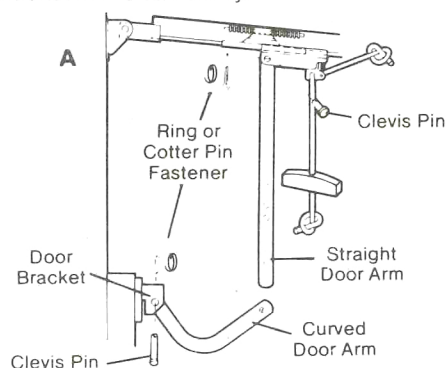
Follow only those instructions which apply to your door type

### SECTIONAL DOOR INSTALLATION ONLY

Make sure garage door is closed tight. Pull the emergency release handle to disconnect the trolley. Manually move outer trolley back to the center of inner trolley as shown in Figures A, B and C.

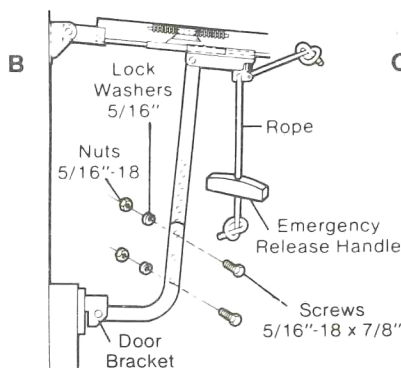
**FIG. A.** Fasten the straight door arm section to outer trolley with a clevis pin. Secure the connection with a ring or cotter pin fastener. (If cotter-type, spread pin to secure.)

Fasten the curved section to door bracket in the same way.



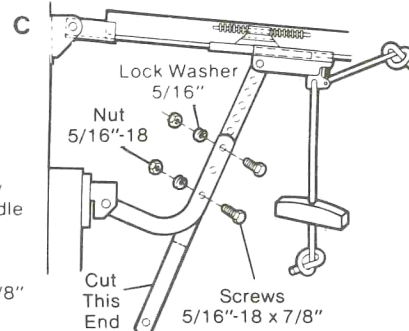
**FIG. B.** Bring arm sections together. Find two pairs of holes that line up and join sections.

Select holes as far apart as possible to increase door arm rigidity.



**FIG. C.** If holes in curved arm are ABOVE holes in straight arm, disconnect straight arm. Cut about 6" from solid end. Reconnect to trolley with CUT END DOWN as shown.

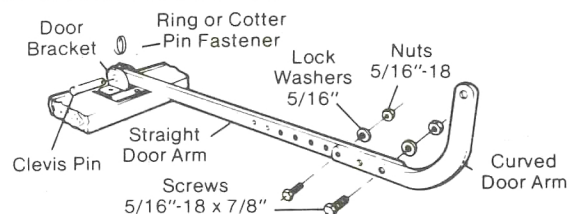
Bring arm sections together. Find two pairs of holes that line up and join with screws, lock washers and nuts.



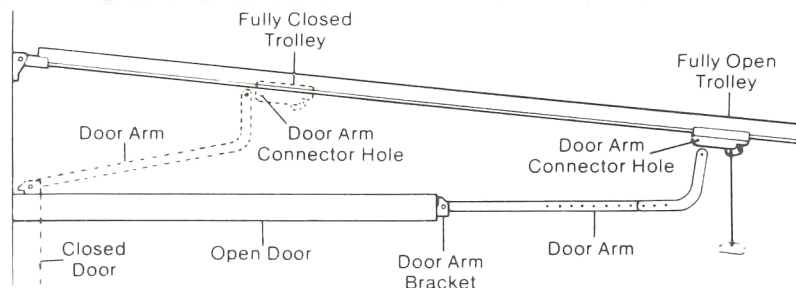
Proceed to Step 1, Pg. 14. Trolley will re-engage automatically when opener is operated.

### ALL ONE-PIECE DOOR INSTALLATIONS

**ASSEMBLE DOOR ARM PROCEDURE:** Fasten straight and curved door arm sections together to longest possible length. With door closed, connect straight door arm section to door bracket with a clevis pin. Secure with a ring or cotter pin fastener. (If cotter pin fastener, spread to secure.)



Before connecting door arm to trolley, limits of travel must be adjusted on one-piece doors. Limit adjustment screws are located on left side panel of opener as shown in illustration on Pg. 14. Follow procedures below.



### ADJUSTMENT PROCEDURES

#### PROCEDURE - OPEN DOOR ADJUSTMENT

**Decrease up limit.** Turn UP limit adjustment screw counter-clockwise 4 complete turns.

Press Wall Control push button. Trolley will travel to full open.

Manually raise door to open position (parallel to floor) and lift door arm to trolley. The arm should touch trolley just in back of door arm connector hole as shown in solid line drawing. If arm does not extend far enough, adjust limit further. One full turn equals 2 inches of door travel.

**CONNECT DOOR ARM TO TROLLEY:** With door closed, join curved arm to connector hole in trolley with remaining clevis pin. Secure with ring or cotter fastening pin. **NOTE: It may be necessary to lift door slightly to make connection.**

Run opener through a complete travel cycle. If door has a slight 'downward' slant in full open position, decrease UP limits until door is parallel to floor.

#### PROCEDURE - CLOSED DOOR ADJUSTMENT

**Decrease down limit.** Turn DOWN limit adjustment screw clockwise 8 complete turns.

Press Wall Control push button. Trolley will travel to full closed.

Manually close door and lift door arm to trolley. Arm should touch trolley just ahead of door arm connector hole as shown in dotted line drawing. If arm is behind the connector hole, adjust limit further. One full turn equals 2 inches of door travel.



# Adjustment

## STEP 1 Adjust UP and DOWN Limits

LIMIT ADJUSTMENT settings regulate the points at which the door will stop when moving up or down.

**NOTE:** Door **STOPS** in UP direction if anything interferes with door travel. The door **REVERSES** in DOWN direction if anything interferes with door travel (including binding or unbalanced doors).

**PROCEDURE:** To operate opener, press the Lighted Push Button or transmitter. Run opener through a COMPLETE TRAVEL CYCLE. Limit adjustments are not necessary when the door opens and closes completely and does not reverse unintentionally in down direction.

The following chart outlines adjustment procedures. Run opener through a COMPLETE TRAVEL CYCLE AFTER EACH ADJUSTMENT. **NOTE: REPEATED OPERATION OF THE OPENER DURING ADJUSTMENT PROCEDURES MAY CAUSE THE MOTOR TO OVERHEAT AND SHUT OFF. SIMPLY WAIT 15 MINUTES AND TRY AGAIN.** Read the chart carefully before proceeding to Step 2. Use a screwdriver to make limit adjustments.



### LIMIT ADJUSTMENT CHART

#### IF DOOR DOES NOT OPEN COMPLETELY BUT OPENS AT LEAST FIVE FEET

Increase UP travel. Turn UP LIMIT adjustment screw clockwise. One turn equals 2 inches of travel.

**If door doesn't open at least 5 feet:** adjust OPEN FORCE as explained in Step 2.

#### IF DOOR DOES NOT CLOSE COMPLETELY (ON SECTIONAL DOORS)

Lengthen the door arm. (See Step 10, Page 13.)

If the door arm is at maximum length, increase DOWN travel. Turn DOWN limit adjustment screw counterclockwise. One turn equals 2 inches of travel.

If door still will not close completely, the header bracket is positioned too high. Repeat Step 1, Page 7.

#### IF DOOR DOES NOT CLOSE COMPLETELY (ON ONE-PIECE DOORS)

Increase DOWN travel. Turn down limit adjustment screw counterclockwise. One turn equals 2 inches of travel.

#### IF DOOR REVERSES WHEN CLOSING AND THERE IS NO INTERFERENCE TO TRAVEL CYCLE

**Test door for binding:** Pull emergency release handle. Manually open and close door. If door is binding, call a door serviceman.

If door is not binding or unbalanced, adjust CLOSE FORCE. See Step 2.

#### IF OPENER REVERSES IN FULLY CLOSED POSITION

Decrease DOWN travel. Turn down limit adjustment screw clockwise. One turn equals 2 inches of travel.

## STEP 2 Adjust Force



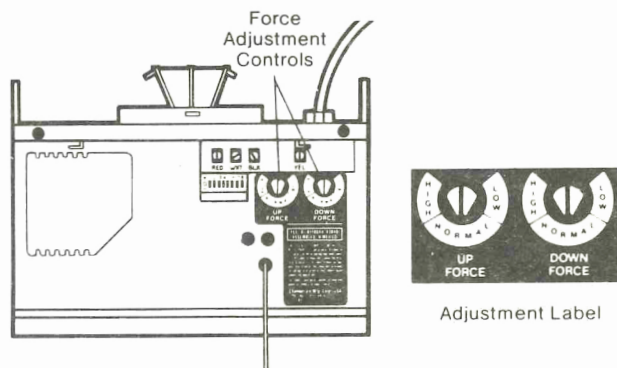
**DO NOT USE FORCE ADJUSTMENTS TO COMPENSATE FOR A BINDING OR STICKING GARAGE DOOR. EXCESSIVE FORCE WILL INTERFERE WITH PROPER OPERATION OF SAFETY REVERSE SYSTEM OR DAMAGE GARAGE DOOR.**

Force Adjustment Controls are located on rear panel of opener. **FORCE ADJUSTMENT** settings regulate amount of power required to open and close door.

**NOTE:** Door **STOPS** in UP direction if anything interferes with door travel. The door **REVERSES** in DOWN direction if anything interferes with door travel (including binding or unbalanced doors).

If force adjustments are set too light, door travel may be interrupted by nuisance reversals in DOWN direction and stops in UP direction. As weather conditions can affect door movement, occasional adjustment may be needed.

The maximum force adjustment range is 260 degrees, about 3/4 of a complete turn. Do not force controls beyond that point. Turn force adjustment controls with a screwdriver.



### FORCE ADJUSTMENT CHART

#### TEST DOWN (CLOSE) FORCE

Grasp the door handle or door bottom when door is about halfway through DOWN (CLOSE) TRAVEL. The door should reverse. If the door is hard to hold or doesn't reverse, decrease the DOWN (CLOSE) FORCE by turning the control in a counter clockwise direction. Make 10 degree turn adjustments until the door reverses normally. After each adjustment, run the opener through a complete travel cycle.

**PROCEED TO STEP 3**

#### IF DOOR DOESN'T OPEN AT LEAST 5 FT

Increase UP (OPEN) FORCE by turning control clockwise. Make 10 degree turn adjustments until the door opens completely. Readjust UP LIMIT if necessary. After each adjustment, run opener through a complete travel cycle.

#### IF DOOR REVERSES DURING DOWN (CLOSE) CYCLE

Increase DOWN (CLOSE) FORCE by turning control clockwise. Make 10 degree turn adjustments until the door completes close cycle. After each adjustment, run opener through a complete travel cycle.



# Adjustment

## STEP 3 *Test Safety Reverse System*



**THE SAFETY REVERSE SYSTEM TEST IS IMPORTANT. THE GARAGE DOOR *MUST* REVERSE ON CONTACT WITH A ONE INCH OBSTACLE PLACED ON THE FLOOR. FAILURE TO PROPERLY ADJUST OPENER MAY RESULT IN SERIOUS PERSONAL INJURY FROM A CLOSING GARAGE DOOR. REPEAT TEST AT LEAST FOUR TIMES A YEAR AND ADJUST AS NEEDED.**

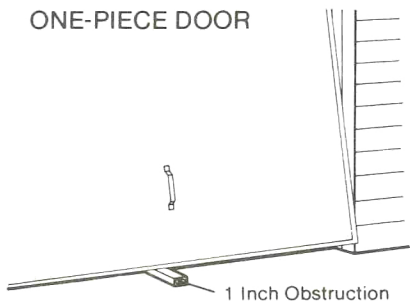
**PROCEDURE:** Place a 1-inch obstacle on the floor under the garage door. Operate door in DOWN direction. The door must reverse on the obstruction.

If a **SECTIONAL** door STOPS on the obstruction, disconnect the trolley and lengthen door arm. Repeat test until the door reverses in DOWN direction. If door arm is at maximum length, use one-piece door procedure below.

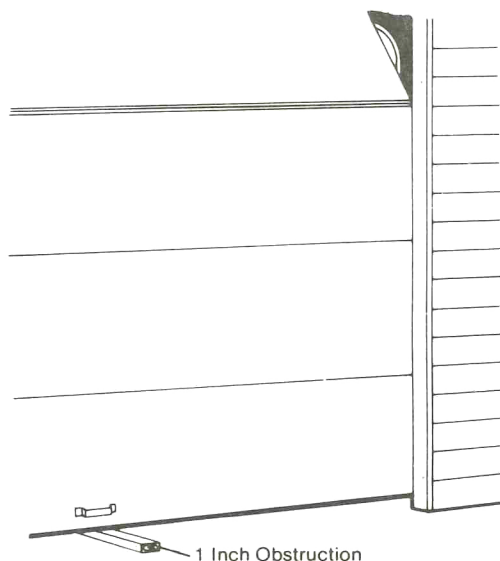
If a **ONE-PIECE** door stops on obstruction, door is not traveling far enough in DOWN direction. Increase the DOWN limit by turning DOWN limit adjustment screw counterclockwise 1/4 turn. REPEAT TEST.

When the door reverses on the 1-inch obstruction, remove obstruction and run opener through a complete travel cycle. Door must not reverse in closed position. If it does, repeat Adjustment Steps 2 and 3.

ONE-PIECE DOOR



SECTIONAL DOOR



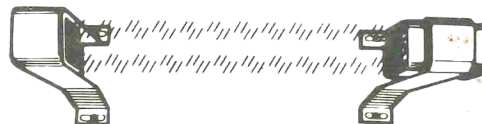
**REPEAT ADJUSTMENT STEP 3 AFTER:**

- 1. EACH ADJUSTMENT OF DOOR ARM LENGTH, CLOSE FORCE OR DOWN LIMIT.**
- 2. ANY REPAIR OR ADJUSTMENT OF GARAGE DOOR (INCLUDING SPRINGS AND HARDWARE).**
- 3. ANY REPAIR OR BUCKLING OF THE GARAGE FLOOR.**
- 4. ANY REPAIR OR ADJUSTMENT OF THE GARAGE DOOR OPENER.**

## *(Optional)* STEP 4 *Install the Protector System*

The 'Protector System' provides an **ADDITIONAL** measure of safety against a small child being caught under a garage door. It uses an invisible beam which, when broken by an obstruction, causes a closing door to open and prevents an open door from closing.

After the garage door opener has been completely installed and adjusted, the 'Protector System' accessory can be installed. Instructions are included with this optional device.



# Radio Controls

The code in your radio controls can be easily set or changed. Move one or more of the code switches to a plus, minus or center (0) position. Changing the position of only one switch makes an entirely different code.

## MATCHING YOUR CODE IN A NEW TRANSMITTER

The original transmitter is preset at the factory to the same coded signal as the receiver. The code in any **NEW** transmitters must be set to match the code in the original transmitter and the receiver.

**PROCEDURE:** With visor clip off, remove screw in original and new transmitters as shown in **Figure 1**. Carefully turn the cases over (push button sides up). Remove case tops as shown in **Figure 2**. **CAUTION: DO NOT MOVE CIRCUIT BOARD COMPONENTS.**

Place transmitter circuit boards side by side as shown in **Figure 3**. Set the code switches in the new transmitter to match those in the original transmitter. Use a pen or screwdriver to slide the switches.



FIGURE 1

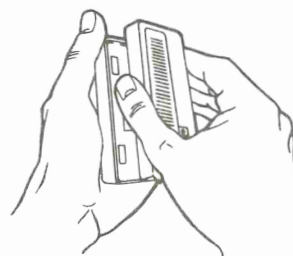


FIGURE 2

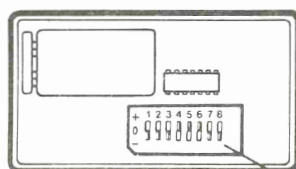
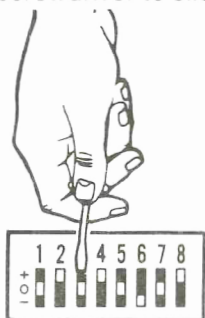
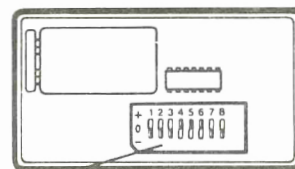


FIGURE 3



Transmitter Circuit Board  
Code Switches



## CHANGING YOUR CODE IN RECEIVER AND TRANSMITTER(S)

**DISCONNECT POWER TO OPENER BEFORE CHANGING THE CODE IN THE RECEIVER.**

The receiver is fastened to the rear panel of the opener chassis. **IF YOU CHANGE THE CODE IN YOUR RECEIVER, ALSO CHANGE THE CODE IN YOUR TRANSMITTER(S).**

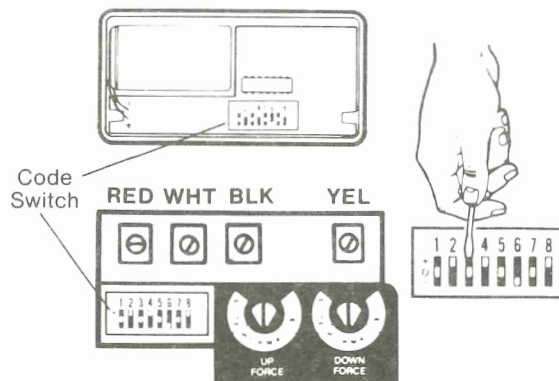
**PROCEDURE:** Use a pen or screwdriver. Slide one or more **RECEIVER** code switches to a plus, minus or center (0) position.

Hold transmitter circuit board alongside receiver code switches as shown. Set the code switches in the transmitter(s) to match new receiver code settings.

**NOTE:** If the receiver and transmitter do not have the same amount of code switches (one may have 8 and the other 9), set the extra switch to center position.

**IMPORTANT:** Code settings must be exactly the same in the receiver, transmitter and all additional transmitters used to operate the door. Please keep this instruction manual for future reference.

FIGURE 4





# Having a Problem? **Review Pages 2 & 3 Before Proceeding**

| SITUATION   | PROBABLE CAUSE & SOLUTION  |
|---|--|
| <b>OPENER DOESN'T OPERATE FROM EITHER WALL PUSH BUTTON OR TRANSMITTER</b> | <ol style="list-style-type: none"> <li>1. Have you disengaged all door locks? Review Step 8, Page 11.</li> <li>2. Does the opener have electric power? Plug a lamp into the outlet. If it doesn't light, check fuse box or circuit breaker. (Some outlets are controlled by a wall switch).</li> <li>3. Repeated operation may have tripped the overload protector in the motor. Wait 15 minutes. Try again.</li> <li>4. Is there a build-up of ice or snow under door? Door may be frozen to ground. Remove any obstruction.</li> <li>5. Remove bell wire from opener terminals. Short red and white screw terminals by touching both terminals at the same time with a coin or screwdriver. If opener runs, check for a faulty wire connection at wall push button or a short under staples.</li> </ol>  |
| <b>OPENER OPERATES FROM TRANSMITTER BUT NOT FROM WALL PUSH BUTTON</b>     | <ol style="list-style-type: none"> <li>1. Is wall push button lit? If not, refer to No. 5 above and follow same procedure.</li> <li>2. Are wiring connections correct? Review Step 6, Pg.10.</li> </ol>  |
| <b>DOOR OPERATES FROM WALL PUSH BUTTON BUT NOT FROM THE TRANSMITTER</b>   | <ol style="list-style-type: none"> <li>1. Does the battery test light glow when transmitter push button is pressed? If not, replace the battery (Page 3 tells you how.)</li> <li>2. If you have two transmitters and only one operates, review code setting procedures on Page 16. Receiver and ALL transmitters must be set to same code.</li> <li>3. Re-program receiver and ALL transmitters. Try setting ALL the code switches in plus, center or minus positions. If transmitter(s) works, you can try a random code switch setting again, if you desire.</li> </ol>  |
| <b>TRANSMITTER HAS SHORT RANGE</b>  | <ol style="list-style-type: none"> <li>1. Check battery test light. If the light is out, change the battery (Page 3 tells you how).</li> <li>2. Change the location of transmitter in the car.</li> <li>3. A metal garage door, foil-backed insulation or metal siding will reduce transmission range.</li> <li>4. Check to be sure the antenna on back panel of opener extends fully downward.</li> </ol>   |
| <b>THE GARAGE DOOR OPENS AND CLOSES BY ITSELF</b>                         | <ol style="list-style-type: none"> <li>1. Is there a neighbor with a garage door opener using the same frequency code? Change your code. Review Page 16.</li> <li>2. Check to make sure that the transmitter push button(s) is not stuck in the 'down' position.</li> <li>3. Remove bell wire from opener terminals and operate from transmitter only. If this solves the problem, the wall push button is faulty (replace), or there is a short or broken wire between push button and opener.</li> </ol>   |
| <b>DOOR DOESN'T OPEN COMPLETELY</b>                                       | <ol style="list-style-type: none"> <li>1. Is something obstructing the door?</li> <li>2. If the door opens at least 5 feet, travel limits may need to be increased. One turn equals 2 inches of travel. See Pg. 14. <b>Repeat Safety Reverse Test after adjustment is complete.</b></li> <li>3. If door has been working properly but now doesn't open all the way, increase UP FORCE. See Pg. 14. <b>Repeat Safety Reverse Test after adjustment is complete.</b></li> </ol>  |
| <b>DOOR DOESN'T CLOSE COMPLETELY</b>                                      | <ol style="list-style-type: none"> <li>1. Is something obstructing the door?</li> <li>2. Review the Travel Limits Adjustment Chart on Page 14. <b>Repeat Safety Reverse Test after any adjustment of door arm length, close force or down limit.</b></li> </ol>  |
| <b>DOOR WON'T CLOSE</b>   | <ol style="list-style-type: none"> <li>1. The "Protector" System, if installed, may be misaligned or obstructed. Disconnect system and check door operation. If problem disappears, correct alignment.</li> </ol>  |
| <b>DOOR REVERSES FOR NO APPARENT REASON</b>                               | <ol style="list-style-type: none"> <li>1. Pull the red emergency release handle. Operate door manually. If it is unbalanced or binding, call a garage door serviceman to correct the problem.</li> <li>2. Clear any ice or snow from garage floor area where garage door closes.</li> <li>3. Review the Force Adjustment Chart on Page 14. <b>Repeat Safety Reverse Test after adjustment is complete.</b></li> <li>4. If door reverses in FULLY CLOSED position, decrease travel limits (See Pg. 14) and <b>repeat Safety Reverse Test after adjustment is complete.</b></li> </ol> <p><b>THE NEED FOR OCCASIONAL ADJUSTMENT OF FORCE AND LIMIT SETTINGS IS NORMAL. WEATHER CONDITIONS IN PARTICULAR CAN AFFECT DOOR TRAVEL</b></p> <ol style="list-style-type: none"> <li>5. The 'Protector System' (if you have installed this accessory) may be misaligned or obstructed. Disconnect system and check door operation. If problem disappears, correct alignment.</li> </ol> |

# Having a Problem? (Continued)

## SITUATION

## PROBABLE CAUSE & SOLUTION

### OPENER LIGHT

#### DOESN'T TURN ON

1. Replace the light bulb (75 Watts Maximum). Use rough service bulb if standard bulb burns out prematurely due to vibration. (Vibration may be caused by loose end panels. Retighten screws).

#### DOESN'T TURN OFF

1. There may be a defective ground at ceiling or wall receptacle. **Unit must be grounded.**

### OPENER STRAINS OR MAXIMUM FORCE IS NEEDED TO OPERATE DOOR

1. Door may be out of balance or springs are broken. **Close door** and use emergency release rope and handle to disconnect trolley and close door manually. A properly balanced door will remain in any point of travel while being supported entirely by its springs. If it does not, call a garage door serviceman to correct problem.

### OPENER MOTOR HUMS BRIEFLY, THEN WON'T RUN

1. Garage door springs are broken. SEE ABOVE.
2. Trolley may be jammed into rail stop bolts. Pull or push on door while motor is humming to release jammed condition. Re-adjust door limits (Page 14) to prevent over-travel.
3. If problem occurs on the first operation of opener, door is locked. **DISABLE DOOR LOCK.** If the chain was removed and re-installed, the motor may be out of phase. Remove chain; cycle motor to down position. (Observe drive sprocket. When it turns in clockwise direction and stops, motor is in down position.) Re-install chain.

### OPENER WON'T OPERATE DUE TO POWER FAILURE

1. Use emergency release rope and handle to disconnect trolley. Door can be opened and closed manually. When the power is restored, press the Lighted Push Button and trolley will automatically reconnect.
2. The emergency release key lock accessory disconnects the trolley from outside the garage in case of power failure.

### CHAIN DROOPS OR SAGS

1. It is normal for chain to droop slightly in the closed position. Use emergency release rope and handle to disconnect trolley. If chain returns to normal height when trolley is disengaged and door reverses on a one-inch obstruction, no adjustments are needed. See Step 3, Page 6.

## Repair Parts

### RAIL ASSEMBLY PARTS LIST



Master Link Kit  
1A995

NOT SHOWN  
Owners Manual  
114A1051



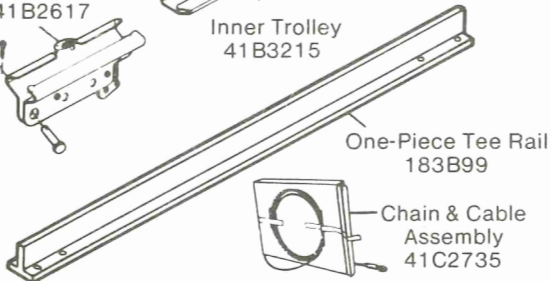
Chain Retainer  
Bracket  
12A197



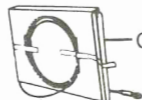
Outer Trolley  
41B2617



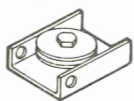
Inner Trolley  
41B3215



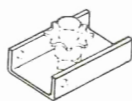
One-Piece Tee Rail  
183B99



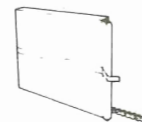
Chain & Cable  
Assembly  
41C2735



Chain & Cable  
Pulley Bracket  
41B2616



Full Chain  
Pulley Bracket  
41A2780



Full Chain Assy.  
41C2762

### INSTALLATION PARTS LIST



Straight Door  
Arm Section  
178B34



Transmitter Case, Cover  
& Screw Assembly  
41A3086



Transmitter  
Visor Clip  
29C123



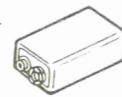
Curved Door  
Arm Section  
178B35



Door Bracket  
12B374



Lighted Push  
Button Assembly  
41A2756



9 Volt Battery  
10A2



Door Bracket  
Plate  
12B380



2-Strand  
Bell Wire  
219A323



Emergency Rope  
& Handle Assembly  
41A2828

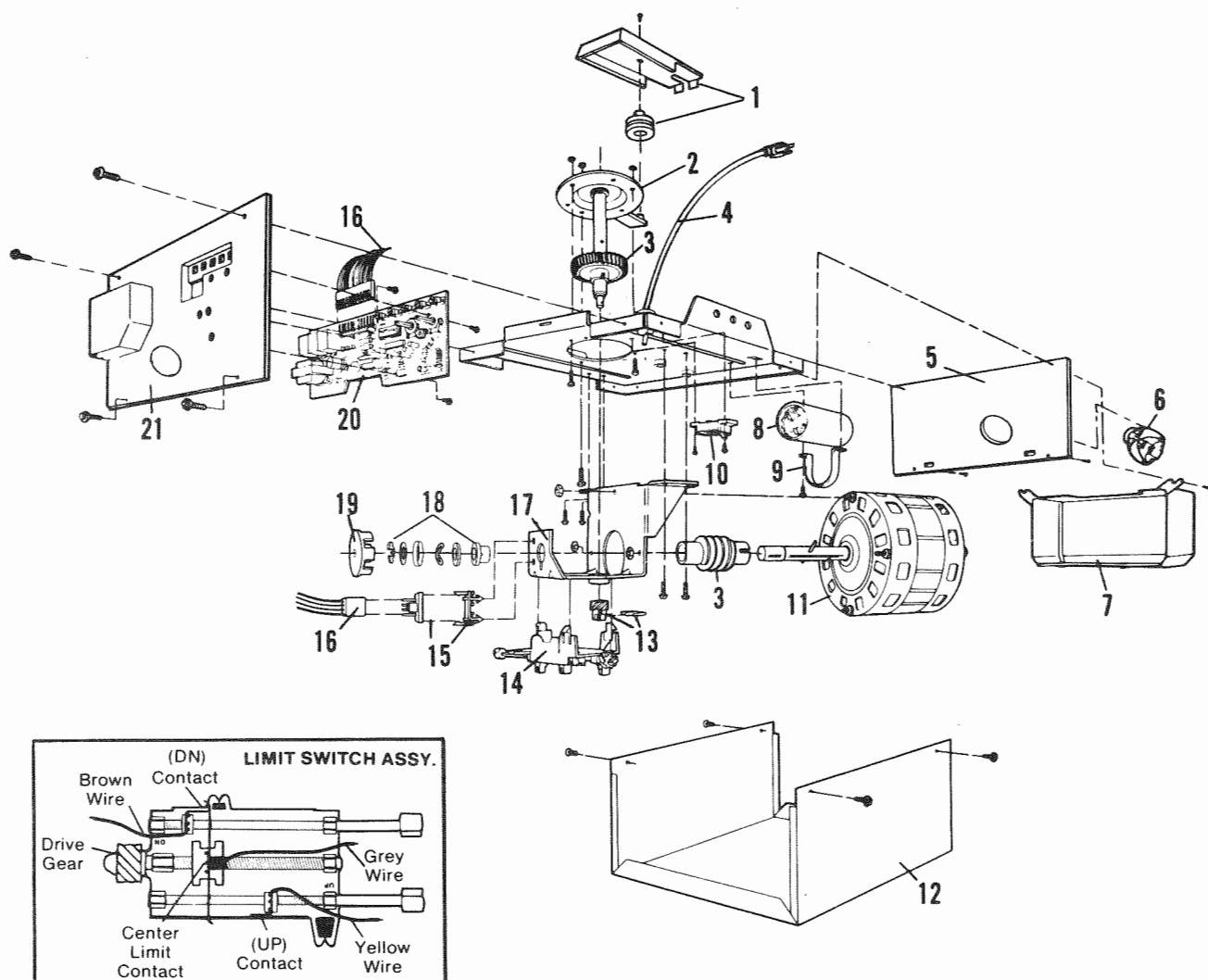


Header Bracket w/Ring  
or Cotter Pin Fastener  
41A2829



# Repair Parts

## Chassis Assembly Parts List



| KEY<br>NO. | PART<br>NO. | DESCRIPTION |
|------------|-------------|-------------|
|------------|-------------|-------------|

|   |         |   |
|---|---------|---|
| 1 | 41A3260 | Sprocket cover w/screw and idler pulley   |
| 2 | 41A3261 | Gear and sprocket assy.<br>Complete with:<br>Spring washer<br>Thrust washer<br>Retaining ring<br>Bearing plate<br>Roll pins (2)<br>Drive gear<br>Worm gear<br>Helical gear w/retainer<br>Grease |
| 3 | 41A2817 | Drive/worm gear kit w/grease<br>Roll pins (2)   |
| 4 | 41B2991 | Line cord   |
| 5 | 143D100 | End panel   |
| 6 | 175B88  | Light socket  |
| 7 | 108D36  | Lens  |
| 8 | 30B387  | Capacitor - 1/3h.p.   |
|   | 30B363  | Capacitor - 1/2h.p.   |

| KEY<br>NO. | PART<br>NO. | DESCRIPTION |
|------------|-------------|-------------|
|------------|-------------|-------------|

|    |                                 |   |
|----|---------------------------------|---|
| 9  | 12A373                          | Capacitor bracket   |
| 10 | 41A3150                         | Terminal block w/screws   |
| 11 | 41A2821                         | Universal replacement motor   |
| 12 | 41D2935                         | Cover (Model 1046)  |
|    | 41D2957                         | Cover (Model 1056)  |
| 13 | 41A2818                         | Helical gear & retainer w/grease  |
| 14 | 41D3013                         | Limit switch assembly   |
| 15 | 41C3005                         | RPM sensor assembly   |
| 16 | 41C2726                         | Wire harness assy. with plug  |
| 17 | 41A3027                         | Motor bracket and bearing assy.   |
| 18 | 41A2826                         | Shaft bearing kit   |
| 19 | 41A2822                         | Interrupter cup assy.   |
| 20 | 41A3039                         | Receiver logic board assy.<br>Complete with:<br>Logic board<br>End panel w/all labels<br>End panel w/all labels |
| 21 | 41A3197<br>NOT SHOWN<br>41A2825 | Chassis assy. hardware kit (includes screws not designated by number in illustration)                           |

# CHAMBERLAIN SERVICE IS ON CALL

OUR LARGE SERVICE ORGANIZATION SPANS AMERICA

INSTALLATION AND SERVICE INFORMATION IS AS NEAR AS YOUR TELEPHONE SIX DAYS A WEEK:

**SIMPLY DIAL OUR TOLL FREE NUMBER: 1-800-528-9131**

**(IN ARIZONA, CALL 792-0511 or 792-0715)**

**HOURS: 7:00 a.m. TO 3:30 p.m. (Mountain Std. Time)**

**MONDAY Through SATURDAY**

For professional installation, parts and service, contact your local CHAMBERLAIN dealer. Look for him in the Yellow Pages, or call our Service number for a list of dealers in your area.

## HOW TO ORDER REPAIR PARTS

Selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly. WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

1. PART NUMBER
2. PART NAME
3. MODEL NUMBER OF OPENER

### ADDRESS ORDERS TO:

THE CHAMBERLAIN GROUP, INC.  
Electronic Parts and Service Department  
2106 N. Forbes Boulevard  
Tucson, Arizona 85745

Toll Free 1-800-528-9131  
(In Arizona, 792-0511 or 792-0715)

### CHAMBERLAIN GARAGE DOOR OPENER ONE-YEAR LIMITED WARRANTY

The Chamberlain Group, Inc. warrants to the first retail purchaser of this product that it will be free from any defect in materials and/or workmanship for a period of twelve full months from the date of purchase. The product must be used in complete accordance with Chamberlain's instructions for installation, operation and care.

This warranty does not cover: non-defect damage, damage caused by unreasonable use (including abuse, failure to provide reasonable and necessary maintenance, or any alterations to the product), labor charges for dismantling or re-installing of a repaired or replaced unit or replacement batteries.

If, during the warranty period, the product appears as though it may be defective, **CALL OUR TOLL FREE SERVICE NUMBER BEFORE DISMANTLING IT (1-800-528-9131). In Arizona, call 792-0511 or 792-0715.** If the product is then alleged to be defective, please send it pre-paid and insured to our Service Center to obtain warranty repair. You will be advised of shipping instructions when you call the number listed above.

Please be sure to include a brief description of the problem and a dated proof-of-purchase receipt with any product that is returned for warranty repair.

Product under warranty, which upon receipt by Chamberlain is determined to be defective in materials and/or workmanship, will be repaired or replaced (at Chamberlain's option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory rebuilt parts at Chamberlain's option.

**THE DURATION OF IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. SOME STATES MAY NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.**

All claims for consequential or incidental damages for breach of this warranty are excluded and in no event shall manufacturer's liability for breach of warranty, negligence, strict liability or breach of contract exceed the cost of the product covered herein, but the purchaser is entitled to the remedies expressly provided in this policy. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

No representative or person is authorized to assume for us any other liability in connection with the sale of this product. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.